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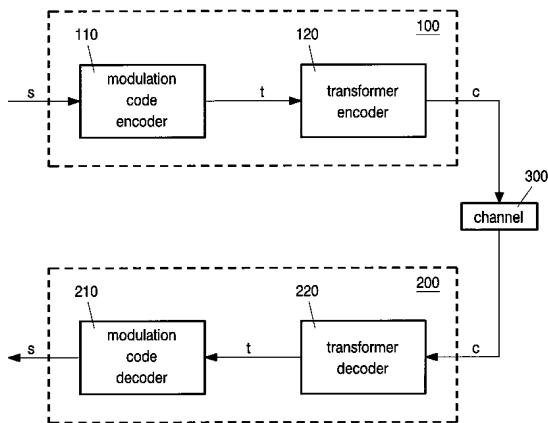
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(54) Title: MODULATION CODE SYSTEM AND METHODS OF ENCODING AND DECODING A SIGNAL



(57) **Abstract:** The invention relates to a modulation code system and a corresponding modulation method. Said modulation system comprises an encoder (100) for transforming an original signal (s) into an encoded signal (c) satisfying predefined second constraints. Said modulation code system further comprises a decoder (200) for decoding the encoded signal (c), after restoration, back into the original signal (s). It is the object of the invention to improve such a known modulation code system and method the amount of required by reducing hardware. This object is achieved by designing the encoder (100) such that it comprises a series connection of a modulation code encoder (110) and a transformer encoder (120) used for filtering an intermediate signal (t), output by said modulation code encoder (110) and satisfying predefined first constraints, in order to generate said encoder output signal (c). The decoder (200) comprises a series connection of a transformer decoder (220) and a modulation code decoder (210).

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